SILICON
CONSULTING ENGINEERS

SC/QC/AMG/2022-23/P6-P5/PMC

Date: 20-12-2023

To,
The Executive Engineer,
Yelahanka Project Division
Bangalore.

"PMC CERTIFICATE AND INSPECTION REPORT"

Dear Sir,

Subject: Regarding Inspection Report for the below mentioned work.

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Item No	Description of work	Unit	Qty	Remarks
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works	Cum	140.53	Work done upto the Billed Quantity and the Quality is Satisfactory
3	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km as per the direction of Engineer in charge	t.km	179.88	Work done upto the Billed Quantity and the Quality is Satisfactory
4	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates	Cum	23.05	Work done upto the Billed Quantity and the Quality is Satisfactory
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works &	Cum	52.56	Work done upto the Billed Quantity and the Quality is Satisfactory
6	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.as per the	Tonne	3.20	Work done upto the Billed Quantity and the Quality is Satisfactory
7	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M20 with OPC cement, with 20mm and down size graded granite metal	Sqm	142.65	Work done upto the Billed Quantity and the Quality is Satisfactory
8	Providing and fixing precast reinforced cement concrete covering slabs of 23Cm thick made of M20 with OPC cement,with 20mm and down size graded granite metal	Sqm	14.04	Work done upto the Billed Quantity and the Quality is Satisfactory
17	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates	Cum	16.67	Work done upto the Billed Quantity and the Quality is Satisfactory

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Item No	Description of work	Unit	Qty	Remarks
18	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates			
	Above 125 %	Cum	1.68	Work done upto the Billed Quantity and the Quality is Satisfactory
19	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure	Cum	58.67	Work done upto the Billed Quantity and the Quality is Satisfactory
	Above 125 %	Cum	3.89	Work done upto the Billed Quantity and the Quality is Satisfactory
20	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6(1 cement : 6 coarse sand) as per the direction of Engineer in charge	Cum	13.96	Work done upto the Billed Quantity and the Quality is Satisfactory
21	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth,	Cum	125.71	Work done upto the Billed Quantity and the Quality is Satisfactory
22	Providing Thermo-Mechanically Treated bars of grade Fe 500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in	kg	5499.03	Work done upto the Billed Quantity and the Quality is Satisfactory
23	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum	Sqm	142.00	Work done upto the Billed Quantity and the Quality is Satisfactory
24	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum	Sqm	64.00	Work done upto the Billed Quantity and the Quality is Satisfactory
	Above 125 %	Sqm	76.63	Work done upto the Billed Quantity and the Quality is Satisfactory
25	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New	Sqm	165.74	Work done upto the Billed Quantity and the Quality is Satisfactory
26	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster	Cum	0.14	Work done upto the Billed Quantity and the Quality is Satisfactory
27	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement	Nos	2.00	Work done upto the Billed Quantity and the Quality is Satisfactory

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Item No	Description of work	Unit	Qty	Remarks
28	Providing and fixing flush door shutter made out of solid core block board type, well seasoned , chemicaly treated hard wood battens and internal frame with minimum 45	Sqm	1.80	Work done upto the Billed Quantity and the Quality is Satisfactory
30	Providing & fixing of 2-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium	Sqm	23.50	Work done upto the Billed Quantity and the Quality is Satisfactory
31	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel	Kg	524.98	Work done upto the Billed Quantity and the Quality is Satisfactory
32	Providing and laying flooring and steps fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with	Sqm	170.14	Work done upto the Billed Quantity and the Quality is Satisfactory
33	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per	Sqm	6.30	Work done upto the Billed Quantity and the Quality is Satisfactory
	Above 125 %	Sqm	2.92	Work done upto the Billed Quantity and the Quality is Satisfactory
34	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622,	Sqm	8.23	Work done upto the Billed Quantity and the Quality is Satisfactory
35	Providing skirting, dadooing, rises of steps with white glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing	Sqm	36.05	Work done upto the Billed Quantity and the Quality is Satisfactory
36	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering,	Sqm	373.05	Work done upto the Billed Quantity and the Quality is Satisfactory
37	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required	Sqm	329.24	Work done upto the Billed Quantity and the Quality is Satisfactory
38	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the	Sqm	329.24	Work done upto the Billed Quantity and the Quality is Satisfactory
39	Providing White washing with lime to give an even shade :New work (three coats) with lime of approved quality, including cost of materials, labour complete as	Sqm	373.05	Work done upto the Billed Quantity and the Quality is Satisfactory
40	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m◆ over and including priming coat of exterior	Sqm	373.05	Work done upto the Billed Quantity and the Quality is Satisfactory

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Item No	Description of work	Unit	Qty	Remarks
42	Providing and fixing chromium plated brass handles of 100/125 mm with necessary screws etc. as per the direction of Engineer in charge.	Nos	6.00	Work done upto the Billed Quantity and the Quality is Satisfactory
43	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc.125x65x2.12mmas per the direction of Engineer in	Nos	9.00	Work done upto the Billed Quantity and the Quality is Satisfactory
44	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. Complete 250x10mm as per the direction of Engineer in charge.	Nos	4.00	Work done upto the Billed Quantity and the Quality is Satisfactory
45	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded	m	29.00	Work done upto the Billed Quantity and the Quality is Satisfactory
46	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded	m	38.00	Work done upto the Billed Quantity and the Quality is Satisfactory
47	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P.	Each	1.00	Work done upto the Billed Quantity and the Quality is Satisfactory
48	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with	Each	1.00	Work done upto the Billed Quantity and the Quality is Satisfactory
49	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size	Each	2.00	Work done upto the Billed Quantity and the Quality is Satisfactory
50	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line	m	12.00	Work done upto the Billed Quantity and the Quality is Satisfactory
51	Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 :1996 with manhole lid and suitable locking\ arrangements, making holes of	L	1000.00	Work done upto the Billed Quantity and the Quality is Satisfactory
52	Providing and fixing gun metal non- return valve of approved quality (screwed end)as per the direction of Engineer in charge.	Nos	1.00	Work done upto the Billed Quantity and the Quality is Satisfactory
53	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats completeas per the direction of Engineer in charge	Each	1.00	Work done upto the Billed Quantity and the Quality is Satisfactory
54	Providing and fixing PTMT pillar cock of approved quality and colour15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gmsas per the	Each	1.00	Work done upto the Billed Quantity and the Quality is Satisfactory

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Item No	Description of work	Unit	Qty	Remarks
56	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes	Mtr	36.00	Work done upto the Billed Quantity and the Quality is Satisfactory
57	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes	Mtr	30.00	Work done upto the Billed Quantity and the Quality is Satisfactory
58	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall	Mtr	48.00	Work done upto the Billed Quantity and the Quality is Satisfactory
59	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25mm dia 2.mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and	Mtr	24.00	Work done upto the Billed Quantity and the Quality is Satisfactory
60	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 32mm dia 2.5mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall	Mtr	12.00	Work done upto the Billed Quantity and the Quality is Satisfactory
61	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring	Mtr	100.00	Work done upto the Billed Quantity and the Quality is Satisfactory
62	1.5 Sqm	Mtr	100.00	Work done upto the Billed Quantity and the Quality is Satisfactory
63	2.5 Sqm	Mtr	100.00	Work done upto the Billed Quantity and the Quality is Satisfactory
64	4.0 Sqm	Mtr	50.00	Work done upto the Billed Quantity and the Quality is Satisfactory
65	10.0 Sqm	Mtr	40.00	Work done upto the Billed Quantity and the Quality is Satisfactory
66	Point wiring using Copper wire without switch.Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 1100V Grade, COPPER	Point	18.00	Work done upto the Billed Quantity and the Quality is Satisfactory
67	Medium point a above 3mtr up to 6mtr from tapping point to out let via switch as per the direction of Engineer in charge.	Point	18.00	Work done upto the Billed Quantity and the Quality is Satisfactory
68	Long point a above 6mtr up to 10mtr from tapping point to out let via switch as per the direction of Engineer in charge.	Point	12.00	Work done upto the Billed Quantity and the Quality is Satisfactory

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Item No	Description of work	Unit	Qty	Remarks
69	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve , indicator ON/OFF, energy	Each	3.00	Work done upto the Billed Quantity and the Quality is Satisfactory
70	6-32 Amps DP	Each	3.00	Work done upto the Billed Quantity and the Quality is Satisfactory
71	40 Amps TPN	Each	3.00	Work done upto the Billed Quantity and the Quality is Satisfactory
72	50-63 Amps SP	Each	2.00	Work done upto the Billed Quantity and the Quality is Satisfactory
73	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable	Each	1.00	Work done upto the Billed Quantity and the Quality is Satisfactory
74	Supplying and fixing regular MCB distribution boards on wall/wood board/flush mounting using required clamps, bolts, nuts etc. with provision for fixing suitable	Each	1.00	Work done upto the Billed Quantity and the Quality is Satisfactory
76	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted	Each	2.00	Work done upto the Billed Quantity and the Quality is Satisfactory
77	Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes : Supplying and fixing of 20/40 Watts	Each	5.00	Work done upto the Billed Quantity and the Quality is Satisfactory
78	Supply and fixing metal fan box with round hook (Page No.2, Item No.1.12 of PWD Electrical SR 2021-22)	Nos	7.00	Work done upto the Billed Quantity and the Quality is Satisfactory
79	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.as per the direction of Engineer in	Each	4.00	Work done upto the Billed Quantity and the Quality is Satisfactory
80	6Amps 3way 5 pin socket	Each	8.00	Work done upto the Billed Quantity and the Quality is Satisfactory
83	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted	Each	2.00	Work done upto the Billed Quantity and the Quality is Satisfactory
85	6Way	Each	5.00	Work done upto the Billed Quantity and the Quality is Satisfactory

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Item No	Description of work	Unit	Qty	Remarks
87	10-12Way	Each	4.00	Work done upto the Billed Quantity and the Quality is Satisfactory
89	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine	Each	2.00	Work done upto the Billed Quantity and the Quality is Satisfactory
91	6Moudule	Each	5.00	Work done upto the Billed Quantity and the Quality is Satisfactory
93	10Moudule	Each	4.00	Work done upto the Billed Quantity and the Quality is Satisfactory
95	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies for operation on 230 Volts, 50 Cycles. Single phase AC supply conforming to ISS-374	Each	7.00	Work done upto the Billed Quantity and the Quality is Satisfactory
97	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted	Each	9.00	Work done upto the Billed Quantity and the Quality is Satisfactory
98	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled	Job	1.00	Work done upto the Billed Quantity and the Quality is Satisfactory
	EIRL			
E1	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying	Sqm	465.60	Work done upto the Billed Quantity and the Quality is Satisfactory

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the 5th and Final bill

Thanking you,

With Regards,

For Newzel Consultants Bangalore

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Date: 20-12-2023

To,
The Executive Engineer,
Yelahanka Project Division
Bangalore.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Subject: Regarding Quality Report for the below mentioned work.

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Item No	Description of work	Unit	Qty	No of Samples Tested	Frequency	Results Standards
1	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse	Cum	39.72	2	Per 100 cum	Meets Morth V Revision Standards
2	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed	Cum	111.23	10	Per 100 cum	Meets Morth V Revision Standards
3	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.as per the direction of Engineer in charge	Tn	3.20	1	Per Dia	Meets Morth V Revision Standards
4	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to	Kg	8305.84	1	Per Dia	Meets Morth V Revision Standards
5	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and	Sqm	140.63	2	Per 200 Sqm	Meets Morth V Revision Standards
6	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M20 with OPC cement, with 20mm and down size graded granite metal	Sqm	142.65	1	Per 500 Sqm	Meets Morth V Revision Standards

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Item No	Description of work	Unit	Qty	No of Samples Tested	Frequency	Results Standards
7	Providing and fixing precast reinforced cement concrete covering slabs of 23Cm thick made of M20 with OPC cement,with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, Inculding	Sqm	14.04	1	Per 500 Sqm	Meets Morth V Revision Standards

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the 5th And Final Bill. The all the samples satisfies the standards requirements as per MORTH V Revision 2013.

Thanking you,

With Regards,

For Newzen Consultants Bangalore

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